

Future Engines & Fuels Lab

The new Future Engines and Fuels Laboratory at the University of Birmingham's Department of Mechanical Engineering was opened on 18 January 2007 by Pro Vice-Chancellor (Research and Knowledge Transfer), Professor Mike Cruise. Before the launch Dr Mike Richardson, Manager of Jaguar Research at Jaguar Land Rover presented a lecture on "Sustainable Mobility".

The new laboratory was refurbished with funding from the University of over £800,000 and is supported by industrial partners Jaguar, Land Rover, Ford, Johnson Matthey and Shell. The facilities comprise 7 test beds, 2 single cylinder research engines, 1 Ford optical engine with laser diagnostics, 2 multi-cylinder Jaguar and Land Rover prototype engines, 1 Formula Student racing engine and 1 teaching engine, along with a unique fuel test cell equipped with 2 GC mass-spectrometers. One more Jaguar/Ford engine test bed is under construction and an additional dedicated Biofuel engine test bed is being prepared.

Click for larger images below.

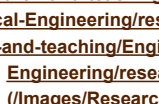
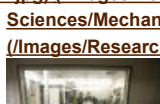
Opening ceremony Thursday, 18 January 2007



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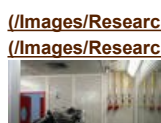
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HCCI Supercharged V6 Room



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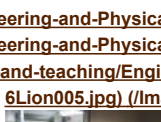
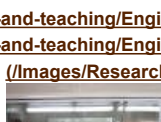
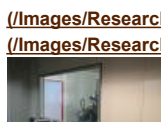
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Single Cylinder Optical HCCI Engine - Combustion Bomb Room



[\(/Images/Research-and-teaching/Engineering-and-Physical-Sciences/Mechanical-Engineering/research/fps-research/OpticalEngine001.jpg\)](#) [\(/Images/Research-and-teaching/Engineering-and-Physical-Sciences/Mechanical-Engineering/research/fps-research/CombustionBomb001.jpg\)](#)

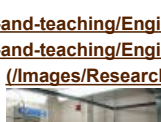
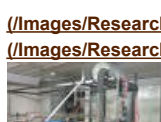
Jaguar V-6 Lion Room



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Single Cylinder Diesel Room



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Single Cylinder Optical Diesel Engine



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Puma Engine Room



[\(/Images/Research-and-teaching/Engineering-and-Physical-Sciences/Mechanical-Engineering/research/fps-research/Pumaengine001.jpg\)](#)



[\(/Images/Research-and-teaching/Engineering-and-Physical-Sciences/Mechanical-Engineering/research/fps-research/Pumaengine002.jpg\)](#)

Medusa Engine Room



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[\(/Images/Research-and-teaching/Engineering-and-Physical-Sciences/Mechanical-Engineering/research/fps-research/Medusaengine003.jpg\)](#) [\(/Images/Research-and-teaching/Engineering-and-Physical-Sciences/Mechanical-Engineering/research/fps-research/Medusaengine006.jpg\)](#)

Mass Spectrometry Room



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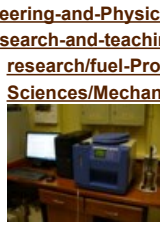


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Fuel Properties Lab



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